TARC NEWSLETTER

TITUSVILLE AMATEUR RADIO CLUB

OCTOBER 1996

OFFICERS

PRESIDENT: Bud Hughes K4CWG 269-0779 SECRETARY: Marty Coin WD4JNM 264-9447
V.PRESIDENT: Pike Abell W4EPU 269-4208 TREASURER: Clyde Lee K4EOS 267-9375

CLUB INFORMATION

TARC Meetings: Monthly on 4th Tuesday at 1900 hrs at Jaycee Building
TARC Nets: VIP - Thursdays at 1000 hrs on 146.910
Friendship - Thursdays at 1830 hrs on 146.910
Mosquito - Wednesdays at 1900 hrs on 28.333
TARC Repeaters: VHF - 146.910 and 146.970. UHF - 444.150

PRESIDENT'S CORNER

By Bud Hughes K4CWG

Our club's by-laws (Article 7 Section 1) require the appointment of a nominating committee. At the October meeting as the President of your club, I will appoint the required Nominating Committee for the purpose of presenting a proposed slate of officers and directors for your consideration to serve in the upcoming year.

In addition to the candidates presented by the Nominating Committee you as a member in good standing may on election night nominate from the floor any club member to be included and voted upon to fill the positions being vacated.

Following the election on November 26, the new officers and directors will be installed and will take office at the December meeting.

The offices and current members serving are:

President:	Bud Hughes K4CWG
Vice President:	Pike Abell W4EPU
Secretary:	Marty Coin WD4JNM
Treasurer:	Clyde Lee K4EOS
Directors:	Kay Watson KE4VFQ
	Alan Marsdan KC4UUX
	Buck Thorne KT4CP
	Warren Murray KS4GP

Repeater custodians serving on the board:

Les Griner K4SJC - 146.91
Jerry Russell KC4UFI - 146.97
Dave McLean WB4SIG - 444.15
Larry Carr WB9MFJ - Packet Rose Node

I would be remiss if I did not mention the pot luck supper held Sept. 24. For those who were unable to attend, boy, you really missed a treat! My thanks to all the ladies (and guys) who prepared the wonderful dishes, and to Sherry, Pat and Becky (and all others) who helped set it up. We have received many complimentary comments. The question is "when are we going to do this again?"

Our condolences go to Sandy and the family of Nelson Southwick, AD4JH. Nelson served with our Volunteer Exam Team. Nelson suffered so much...be at peace my friend.

Chuck KE4RIV is in the hospital in Orlando getting a pace maker. Get well and back home Chuck.

HAPPY BIRTHDAY

OCTOBER BIRTHDAYS

OCT. 1 KF4LCO BILL QUIN
OCT. 4 KF4AOW W. S. DAMPIER
OCT. 7 KC4UWK AL KOLLER
OCT. 8 KE4NUZ HARRY SHETLER JR.
OCT. 8 KR4CY BILL PALM
OCT. 9 KE4BBI PENNY POULIN
OCT. 11 KT4RG TIMOTHY HAYES
OCT. 12 KE4LSV KENT THOMPSON
OCT. 12 W8DGD JIM CAMPBELL
OCT. 13 KE4GOP BERNIE FLANAGAN
OCT. 16 W4LEW JOHN WALTERS
OCT. 16 AC4WM MITCH MATHENY
OCT. 18 N4MCZ ROD IWAN
OCT. 22 WN4IIV ROBERT STRAUGHN
OCT. 22 KE4MXG CARL LINEBAUGH
OCT. 22 N4UTR BOB MARTIN
OCT. 22 KR4WB CHARLIE EATON
OCT. 23 KF4ICK GRANT HAHNE
OCT. 23 KE4FFA MONA SKIDMORE
OCT. 24 KE4CDJ TERRY EAVES
OCT. 24 AC4JX DAVE CREASMAN
OCT. 25 K4KON BRUCE HOOVER
OCT. 26 N9FAB LORRAINE TENDICK
OCT. 28 KF4IGH HEATHER McLEAN
OCT. 28 KE4MXH MARILYN LINEBAUGH
OCT. 29 KC4VVG WALT HART
OCT. 29 KH6GH ART ZIPPLER
OCT. 29 W4KAW HARRY MITCHELL, JR.
OCT. 29 KE4WJW LORNA BURDICK
OCT. 30 KE4MXI PETER LORENZI

FOR SALE
KENWOOD TS830S
WANTED TO BUY
KENWOOD TS940S W/AT.
HARRY MITCHELL W4KAW
269-5940

GARAGE SALE
BY K4LVZ GERALD SKINNER

All my "Ham-Gear" is for sale! Such items as a Kenwood T.O.Keyer (the Grandfather of todays Electronic Keyers); Hallicrafters SX17 Receiver; Power Supplies; Heath Test Equipment; a TV7 & Heath tube testers; 6 meter equipment; Hy-Gain Model 18, AVT Vertical Antenna; Opto-Electronics 7010S frequency Counter; AEA PK232MBX (RTTY, Packet, etc.) fully equipped; Handbooks and Manuals; Computers, Parts, Tubes, Meters, Coils, Tools; and MORE!!

COME SEE AND BUY
SATURDAY, OCTOBER 19, 1996
8:30 AM to 3:00 PM

DIRECTIONS: From the intersection of Aloma Ave. and Hwy 436 (just east of Winter Park) go East to the next traffic light and turn North on **Eastbrook** Blvd. Follow **Eastbrook** north to **Balsam** and proceed to **Bonanza.** Turn North (right) and proceed 2 blocks to **Ellwood** and make a right turn (East). Your destination is the second house on the left - a white house with blue trim.

TARC TEST TEAM

By Bud Hughes K4CWG

As of August 9, the TARC Test Team has been most active. On August 9, 1990, the Volunteer team began administering exams. KC4SYD Cliff was our very first candidate. Such a great way to start off a program that has been very productive and fun! The VEs (Volunteer Examiners) like so many across the nation, have donated so much of their time to promote amateur radio. To be an examiner one must be accredited by a VEC (Volunteer Examiner Coordinator). TARC is affiliated with the W5YI VEC Group. We are fortunate to have a total of 31 accredited volunteer examiners, and are also most fortunate in that we also have club members who are not accredited VEs but come to the test sessions and assist with the administrative functions. (Thanks KE4TQZ).

There are three (3) elements for the Morse code and five (5) elements of theory in the exam program.

From the first exam administered on 8/9/90 through 9/23/96 (six years) the VEs have administered to 875 applicants the following elements:

Element 1A (5 WPM)	122
Element 1B (13 WPM)	115
Element 1C (20 WPM)	87
Element 2 (Novice Theory)	375
Element 3A (Tech Theory)	412
Element 3B (General Theory)	163
Element 4A (Advanced Theory)	109
Element 4B (Extra Theory)	59
	1442

The overall passing percentage is 77%.....The national average is approximately 66%. Many thanks to the TARC Test Team for a job well done!

NEW SHOW

From Amateur Radio Newsline #992

"Into Tomorrow" with Dave Graveline, The Consumer Electronics & Technology radio network program, is now available nationwide. The show airs live on Saturday mornings from 10 am to Noon, Eastern Time, from Dave's home in Miami Lakes, FL, via an Integrated Services Digital Network line to the ABC Radio Network satellite Uplink in New York City.

Discussions center around the latest in technology for all kinds of products and services. The show is highly interactive, with listeners encouraged to join the show live via E-mail as well as toll free open phones.

Listen for "Into Tomorrow" on the Satcom C5 satellite, Transponder 23, SEDAT Channel 15.

PIONEER 6 - 10 YEARS OLD

From Amateur Radio Newsline #979

The world's oldest operating spacecraft, a 140 pound probe called pioneer 6, marked 30 years in orbit around the sun last December 16th. According to a packet posting by KD6MSM, Pioneer 6 is a squat cylinder about a yard long and a yard wide covered with solar coils.

Pioneer 6 went into space Dec.16, 1965, on top of a Delta rocket. Since then, it has been in solar orbit on an elliptical path that ranges from about 93 million miles to about 75 million miles from the sun - about halfway between the orbits of Earth and Venus.

Space scientists had designed the probe to last six months, long enough to pass behind the sun as seen from Earth and send back the first detailed measurements from that region of magnetic fields, cosmic rays and the solar wind of particles expelled from the sun. Although three of six instruments have failed and the solar cells are losing efficiency, the radio signal from Pioneer has never stopped.

MILITARY ON 6 METERS

While radio amateurs continue to express concern over possible shared use of the 2 meter and 70 centimeter ham bands with a commercial satellite service, non-ham users have already set up shop on another amateur band. These uninvited users are already causing interference to amateur systems.

>For nearly two months, Ron Arant N4PHP, has wondered about the source of mysterious interference to his 6 meter FM repeater. Arant says he frequently heard bits and pieces of audio, although he never could identify the sounds. But on June 18, when band conditions opened up, the input to Arant's repeater came alive with heavily armed non-amateur users.

>"I think this is military field activity practice, is what I believe it is. You hear them discussing round in the tube, get the shot off, you know, that kind of. They even discussed the five zero meter hydroburst at one point in the audio in the tape that I made. So, I believe it is army field artillery practice. Some kind of demonstration. Because they definitely have an observer watching all this." Arant said.

>For most of the day, 52.750 MHZ was filled with the sounds of an apparent military exercise using live fire. Arant says he does not appreciate what he's hearing on the ham bands.

>"I guess the military can do what the military wants, but it was my impression that particularly 6 meters was strictly an amateur allocation. And I think they have more than enough spectrum to use for themselves. I think they need to stay off amateur bands myself. But, I mean, the government may do what the government wants, I guess." Arant

>Actually, the military can do what it wants when it comes to using amateur radio frequency. A Federal

Radio Frequency Management Manual specifies conditions for military use of amateur spectrum. In the words of ARRL Executive Vice President David Sumner, K1ZZ, if amateurs are simply hearing the transmissions but no harmful interference to them is occurring, they should smile and be glad they are witnessing a reason why the ham bands should be kept non-commercial, and, Sumner adds, why the military are allies in the fight to achieve that goal.

>Exactly who and where the signals are coming from is still not confirmed. Arant says propagation on June 18, was coming from the FM-16 grid which is split by Virginia and North Carolina. Arant says he believes a military base somewhere in that area may be the source. He urges other hams to scan and monitor the 6 meter band in case more non-amateur users show up. The ARRL on the other hand appears to be welcoming Military sharing of the amateur bands as one of the best methods hams have to protect their home turf.

A NEW 70-CM OCCUPANT?

Yet another organization says its planning to share spectrum in the 70 centimeter ham band. The AMSAT News Service reports that NASA's Jet Propulsion Laboratory in Pasadena, CA plans to launch its Synthetic Aperture Radar on a satellite to be placed in a 400 km orbit. The radar system operates in the 400-470 MHZ range with choice of spectrum reportedly due to the radar's ability to penetrate foliage and desert.

>The Netherlands Agency for Aerospace Programs has also reportedly submitted a request for a frequency allocation for an "Earth Exploration Satellite" within the 400-470 MHZ Band. This was presented and discussed in December at a meeting of the Space Frequency Coordination Group. The Netherlands government requests an allocation of at least 3.5 MHZ of bandwidth in the frequency band 400-470 MHZ. The Netherlands satellite radar will operate in a burat mode having a duty cycle of 30% with a peak power of 760 watts and an antenna gain of 28.7 dB.

QSL'S SOUGHT FOR HAM RADIO COP SHOT IN LINE OF DUTY

From The ARRL Letter Vol 15 No 8

W. D. "Dave" Harvey, KE4VDP, of Lithonia, Georgia, is recuperating from gunshot injuries that almost cost him his arm and still could cost him his career as a police officer. On July 13, Harvey, who's with the DeKalb County Police Department in Decatur, GA, responded to a call of shots fired. He came face-to-face with a man armed with a rifle who fired two shots at Harvey, hitting him once in the left forearm, before two other officers returned fire and killed the man.

>Harvey is out of the hospital following surgery, but he's been told he might lose much of the use of his hand and that he might never again be able to work as a police officer. Even so, Lt. J. E. Hanson of the DeKalb County PD says he visited Harvey recently and said he's remaining "very optimistic" that Harvey will be able to return to duty.

>His friend and colleague, Jim Sheppard, KT4FD, says Harvey has been a ham for about a year and a half and has never received a QSL card. During Harvey's recuperation, he's requesting hams send KE4VDP their QSLs to cheer him up and wish him a speedy recover. Send cards to Dave Harvey, KE4VDP, 2850 Shiloh Way, Lithonia, GA 30058.

TARC FOX HUNT

By Bud K4CWG

John, KB3GK's gang from Daytona consisting of Bill Thomas, KE4HIX and Sue Brown, KE4VQD really stumped the hunters.

Almost from the inception of our fox hunting we have always gathered at K-Mart to begin the hunt. John announced that you can begin the hunt anywhere you wish and that you should get a signal from the north end of Titusville. Hmmm, says old know-it-all Bud, "The ideal starting point would be at San Point - not K-mart." So up to Sand Point we went. To make things worse, I talked others into coming up to that location to begin the hunt. Well, would you know, that bunch from Daytona hid the fox at K-Mart only about 100 yards from the starting point. However, with a few wrong turns and a long hike into the woods up around the 146.91 repeater, the fox master (John) must have felt sorry for Bud and gave instructions to come out of the woods and back to K-Mart. The first transmitter (fox) was hidden in the vacant lot just behind the residence of Les, K4SJC. The direction finders (DF or rf sniffers) all indicated that from K-Mart the Fox was towards Les's house. We drove around to Rosehill in front of Les's house and sure enough the rf sniffers indicated the (continued on page 6)

FAMILY RADIO SERVICE CREATED

From Amateur Radio Newsline #979

The FCC acted on May 10 to create a new personal Family Radio Service. This service was established in direct response to a petition filed by the Radio Shack Division of Tandy Corporation. Radio Shack had requested that the Commission establish such a new radio service to be aimed at providing the American public an affordable and convenient means of direct, short range two-way voice communications among small groups of people.

The new Family Radio Service is described by the FCC as a short distance with a presumed range of up to a half mile. Its purpose is to provide families, friends and/or associates participating in group outings a way to communicate with members of the group who are out of speaking range but still in the immediate area.

The new FCC rules authorize a user to operate an FCC certified Family Radio Service transmitter without a license in places where it regulates communications. The radio transmits on any of the fourteen channels in the 462 to 468 MHZ range allocated to the Family Radio Service.

The FCC decision to create the Family Radio Service will have definite impact in the world of business and finance. Not the least of these is that its ability to get the Family Radio Service created puts Tandy Radio Shack in the position of a two-way telecommunications giant along with companies such as Motorola and GE

More on the creation of the new Family Radio Service and the impact is may have on the growth of Amateur Radio in a future Newsline report.

AMATEUR RADIO SATELLITE LAUNCHED

From ARRL Bulletin 011

JAS-2, the first Amateur Radio satellite launched in 1996, is in orbit. Early Saturday morning, August 17 (UTC), an H-2 rocket blasted off from Japan's Tanegashima Island space center carrying the JAS-2 Amateur Radio satellite. The satellite was successfully deployed in orbit 38 minutes later.

JAS-2 is similar to PSCAR 20, although it offers some interesting twists. As soon as testing is completed and the satellite is open for general use (approximately three days), hams will have access to an easy-to-use packet BBS. Unlike most digital satellites which function as file servers and require specialized ground station software, JAS-2 provides a BBS that operates much like a terrestrial system. The only software required is a terminal program to "talk" to your TNC. Connecting to the BBS is as simple as sending a connect request to 8J1JCS.

Hams who own PSK TNCs can connect to JAS-2 at 1200 baud. But unlike OSCAR 20, JAS-2 can handle 9600 baud FM FSK as well.

A digital voice-storage unit (called the "Digitalker") will be used to transmit announcements, bulletins on the condition of the satellite and so on. It's similar to the unit presently being heard from the Mir space station.

JAS-2 also features a linear transponder for SSB and CW communications. At this time there has been no word from the Japan Amateur Radio League concerning an operating schedule for the transponder vs the BBS. The satellite has also not yet received its OSCAR designation.

Congratulations to JARL and JAMSAT on the successful launch of JAS-2. And many thanks to Kazu Sakamoto, JJ1WTK and Fujio Yamashita, JS1UKR, for keeping ARRL HQ informed throughout the project.

JAS-2 Frequencies:

UPLINK (MHz)	DOWNLINK (MHz)	MODE
145.85 145.89 145.91	435.910	1200 baud PSK
145.87	435.910	9600 baud FM FSK
———	435.795	CW telementry (12WPM)
———	435.910	Digitalker
145.90-146.00	435.80-435.90	Analog linear transponder (SSB and CW)

TREASURERS REPORT

By K4EOS Clyde Lee

BALANCE FORWARD FROM 1995	2,780.03
DEPOSITS Year to date	7,719.28
TOTAL INCOME	$10,499.31
EXPENDITURES	$5,138.24
BALANCE AS AT 10/02/96	$5,361.07

IMPORTANT

WE NEED THE LOAN OF SEVERAL PA HORN SPEAKERS TO USE WITH OUR SOUND SYSTEM ON NOV. 9 AT THE FOX LAKE HAMFEST

IF YOU HAVE A CHANGE IN CALL SIGN, ADDRESS, ETC., PLEASE LET US KNOW SO THAT THE ROSTER MAY BE UPDATED.

CALL CLYDE K4EOS 267-9375

SEPTEMBER MEETING

By Marty WD4JNM, Secretary

The meeting was called to order by Bud K4CWG at 1845 hours. After the Pledge to the Flag and a moment of silence, the second annual September pot luck supper was enjoyed by all. The food was delicious.

>The speaker for the evening was Dennis Decker of the Melbourne Weather Station. He showed slides of weather formations and clouds and explained how they interact and cause dangerous thunderstorms and tornadoes. He explained the types of conditions which warrant calls to the weather station by weather spotters. A most interesting and informative program.

>Madge Broward (the mother of KE4YQN) won a drawing for cash and graciously donated it to the club treasury. We thank her for that.

>New members were voted into the club by a show of hands.

>This meeting was a great success. Adjourned 2055 hours.

Fox Hunt -(continued from page 4)

hidden transmitter to be toward guess who's house. Several of the hunters went into Les's house to retrieve the fox. Les, being a man of his word, finally convinced the hunters that he knew nothing about the whereabouts of the fox. And so the hunt resumed. Just on the outside of and over the fence the first fox was found and taken captive.

Now the second fox. Most of you know me and know that I try to tell the truth most of the time. And when I stray, I am usually caught. What I am about to tell you is the honest truth, so help me. If anyone told you that a tree will radiate rf, you and I would look down our nose and say "poor thing." Well, I have been converted! John and his crew made two trips down to Titusville to find just the right tree/bush for the fox hunt. I don't know the name of the tree/bush that John loaded up, but by jingo, the rf sniffers don't lie. John dug a hole and hid the transmitter. From the transmitter he ran the coax underground about 15 feet to this tree. Approximately 4-6 inches under ground level he terminated the coax right smack dab into the base of this tree with a wood screw. Would you know that every branch, limb, trunk and leaf of that tree would set off the rf sniffer? That poor tree had every branch and leaf examined with a fine tooth comb in search of the source of the rf emission. The amazing thing about "loading up" the tree was that the impedance was approximately 39 ohms and the SWR was less than 2 to 1.

By the way, John, KE4ZPA will most likely be looking for a new partner to ride with after being led astray by Bud in looking in all the wrong places for that mean ole fox. WB4ZUY found the second transmitter, but he was kind enough to let me trace the coax to that infamous tree.

We spent a lot of time searching for the answer to this mystery. John, Bill and Sue - you buffaloed us again!

Thanks to the hunters John K4JYX, Wynn WB4ZUY, Val WB4ZUZ, Ken KD4HNW, Pat KF4LTY, Butch KE4YQN and Patty (Butch's boss), Warren KS4GP and Bud K4CWG. Just you wait until the next fox hunt. Tom WA4QJK and Bud will fox hunt from the strategic position of the bicycle seat with directional antenna mounted to the handle bars. Right, Tom?

ABELL'S ANECDOTES

By Pike W4EPU

Here are some sayings Clara and I picked up during our trip through the East, Midwest, Mid south and South.

He's so old that when he was born, Sitting Bull was a calf.

About as much chance as a chicken at a coyote convention.

As helpless as a worm in a bed of ants.

(Of an uninteresting book) I think I'll wait for the movie.

The fire was so hard to start that he wore out 3 hats fanning it.

Kicking will get you nowhere unless you are a mule.

He's so crooked that he could sleep in the shade of a post hole auger.

Dressed up like the king of spades.

Hungrier than a woodpecker with a headache.

Miserable as a short tailed horse at fly time.

Didn't last any longer than a keg of hard cider at a barn raising.

It's so dry that the bushes are following the dogs around.

There was so much cussing it sounded like a mule skinner's convention

He was so thin he could take a bath in a shotgun barrel.

So tight he wouldn't pay a nickel to see an earthquake.

So stingy he'd skin a flea for the hide.

Limp as a broken fiddle string.

As unhappy as a woodpecker in a petrified forest.

YOU MIGHT BE A RED NECK HAM IF YOU THINK

Quarter wave is a midget female in the navy.
Half wave is bigger.
Standing wave is a group of them in formation.

Feed line is what you get in to eat.
Resister is what you do to a ugly girl.
Coax is what you do with a purty girl.

Rubber duck is a decoy.
Linear has something to do with your family tree.
Radiator is part of your pickup.

Propagation is the rate of reproduction.
Ionosphere means "The basketball is mine."
Tube is the TV

Harmonic is what Charley McCoy plays music with.
Parasites is two locations.
Impedance is a jig you do while looking for a restroom.

Ampere is a ear deformity.
Volt is what you do on a Tuesday in November.
Watt is often asked by someone hard of hearing.

Beam is an illumination for frog gigging.
Slow scan is what you do when a girl walks by.
Contact is what you yell when jump starting your pickup.

Digital means displaying one finger.
A condenser is something that puts milk in cans.
An inductor works for Amtrak

Meter is being introduced to a woman.
160 is the average speed for a NASCAR race.
Mobile is another brand of gasoline.

Switch is swapping mates.
Knife is pulling out a bigger blade in a fight.
Push to Talk is making yourself heard in a beer joint.

Pair of strippers is two naked girls (or guys).
Keyer is a locksmith.
Connector is a dating service.
Rotor is part of a pickup axle.

MEMBERSHIP UPDATE

Total membership: 280. (202 regular, 72 family, 6 honorary)

NEW MEMBERS: KE4AZP JOHN EDWARDS
KF4LUA GWEN COLVIN
KE4USP BOBBY JONES
KC6JBH LINDA JONES

RENEWALS: KE4AGH VERN ANDREWS
KZ5FG GEORGE FLORES
W4GMW NEAL CRANSTON
K4GXR RON RICHARDSON
KD4JMN MARTY COIN
N4KHU DAVE ROBERTS
AC4KU AL SANFORD
KD4ZAH JEWEL SANFORD
KE4MFW WALLY GENTRY
KE4MXJ PEDRO LORENZI
KE4YQF MARY LORENZI
AD4NA TOM NGUYEN
KE4BBG TOYIA NGUYEN
W2STS JESSE LEGRAND
KD4TLS BEN McMAHAN
KC4UUX ALAN MARSDEN
KD4ITY NANCY MARSDEN
KF4DTC ABBIE MARSDEN
KC4VMP JIM CLARK
KC4VMQ DONNA CLARK
KS4YU STEVE GRINER

HAMFESTS:

10/19	Starke
10/19-20	West Palm Beach
10/26	Port St. Lucie
11/2	Eustis/Mt.Dora
11/2	Sorrento
11/9	Titusville
11/23-24	Tampa
12/7	Okeechobee
12/7	Ocala
12/14	Lake City

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